## INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/19618

| A. CLASSIFICATION OF SUBJECT MATTER   |  |  |   |  |  |
|---|--|--|---|--|--|
| IPC(7) : C12Q 1/68; C12P 19/34  |  |  |   |  |  |
| US CL: 435/6, 91.2 According to International Patent Classification (IPC) or to both national classification and IPC          |  |  |   |  |  |
|   | OS SEARCHED  |  |   |  |  |
|   |  | v classification symbols)  |   |  |  |
|   | numentation searched (classification system followed by 35/6, 91.2   | y Classification symbols)  | ·   |  |  |
| 0.3. : 42   | 33/0, 91.2   |  |   |  |  |
|   |  |  | aba Galda assasbad  |  |  |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched |  |  |   |  |  |
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| Electronic da   | ta base consulted during the international search (name  | of data base and, where practicable, sear  | ch terms used)  |  |  |
| Please See Co   | ontinuation Sheet  |  | ;   |  |  |
|   |  |  |   |  |  |
| C. DOCT   | JMENTS CONSIDERED TO BE RELEVANT   |  |   |  |  |
| Category *  | Citation of document, with indication, where ap  |  | Relevant to claim No.   |  |  |
| х   | US 5,945,290 A (COWSERT) 31 August 1999 (31.0  | 8.1999), columns 25-27.  | 63  |  |  |
|   | 1005 (1  | 7 OC 1007) Fig. 2 and column 2 lines   | 64  |  |  |
| X   | US 5,639,611 A (WALLACE et al.) 17 June 1997 (1 15-24.   | 7.06.1997), Fig. 3 and column 3, lines   | 04  |  |  |
| х   | US 5,994,075 A (GOODFELLOW) 30 November 19   | 999 (30.11.1999), column 28, lines 6-  | 1-62  |  |  |
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| Eurthe  | r documents are listed in the continuation of Box C.   | See patent family annex.   |   |  |  |
|   | Special categories of cited documents:   | "T" later document published after the inte  | rnational filing date or priority                               |  |  |
| l.  | •  | date and not in conflict with the applic   | ation but cited to understand the                               |  |  |
|   | t defining the general state of the art which is not considered to be<br>ular relevance  | principle or theory underlying the inve  | nuon  |  |  |
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| "P" document published prior to the international filing date but later than the priority date claimed                        |  | accesses in the second particle particl |   |  |  |
| Date of the actual completion of the international search   |  | Date of mailing of the international search report   |   |  |  |
|   |  | 43 MAY 2000  |   |  |  |
| 27 January 2005 (27.01.2005)  Name and mailing address of the ISA/US  |  | Authorized officer   |   |  |  |
| Mail Stop PCT, Attn: ISA/US   |  | Kenneth R Horlick Want y   |   |  |  |
| Commissioner for Patents  |  | ,  |   |  |  |
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| Continuation USPAT, PC | on of B. FIELDS SEARCHED Item 3: PUB, DERWENT WPI, MEDLINE, BIOSIS :: mutation, primer, PCR, amplification, site-directed mutagenesis, res |                |
| search terms           | : mutation, primer, PCR, amplification, site-directed mutagenesis, res   | striction      |
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